WAVEOPTICS

Reel-in-a-box
Toneable Flat Drop Indoor/Outdoor Simplex
FOSPC-030-X-TFRSX-FTXXX-US / 1 Fiber

Applications

Indoor · Outdoor · Aerial · Duct Installation · Direct-buried · Self-supporting · Toneable

Protections

UV Resistant · Water Blocking · Crush Resistant · Flame Retardant * · Riser Cable *

Protections marked with "*" Only available in the inner jacket the rest are applicable for the outer jacket

REEL-IN-A-BOX TONEABLE FLAT DROP INDOOR/OUTDOOR SIMPLEX CABLE 1F G657.A1 FIBER FT

Description

Waveoptics® Toneable Flat Drop Indoor/Outdoor Simplex Cable is designed to meet the requirements for indoor/outdoor drop cables with a fully dielectric construction, simplifying the transition from the outdoor environment to an indoor Optical Network Terminal (ONT).

Small sub-unit diameter and bend radius that allow an easy installation in space-constrained areas.

PE outer jacket with additives makes a resistant, durable and easy to strip cable, providing superior protection against UV radiation, fungus, abrasion and other environmental factors.

PVC Riser inner jacket is available for the sub-unit that contains the optical fiber.

Two parallel dielectric strength members that require no bonding or grounding, offering exceptional crush resistance.
The FRP strength members are coated with EAA for improved adherence and water penetration.
Reel-in-a-box packaging makes a quicker and easier installation, providing a cost-friendly and time-efficient installation method.

Quality

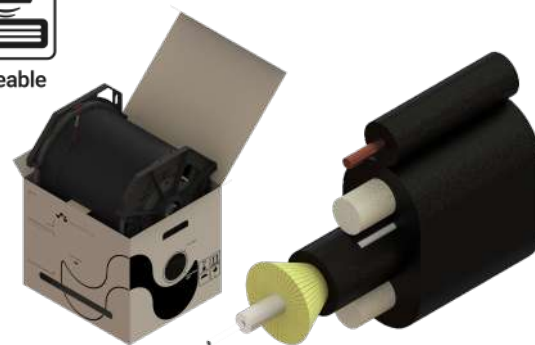Waveoptics® is a ISO-9001:2015 certified company.
We meet or exceed the following international standards:

- Telcordia GR-20: Generic requirements for optical fiber and optical fiber cable.
- IEC 60794: Basic requirements for optical fiber and cable elements.
- ANSI/ICEA S-110-717: Standard for optical fiber and optical fiber cable

Each Waveoptics® cable meets the highest quality standards in the industry and contains a compliance certificate in which the performed tests in our quality laboratory are physically attached.
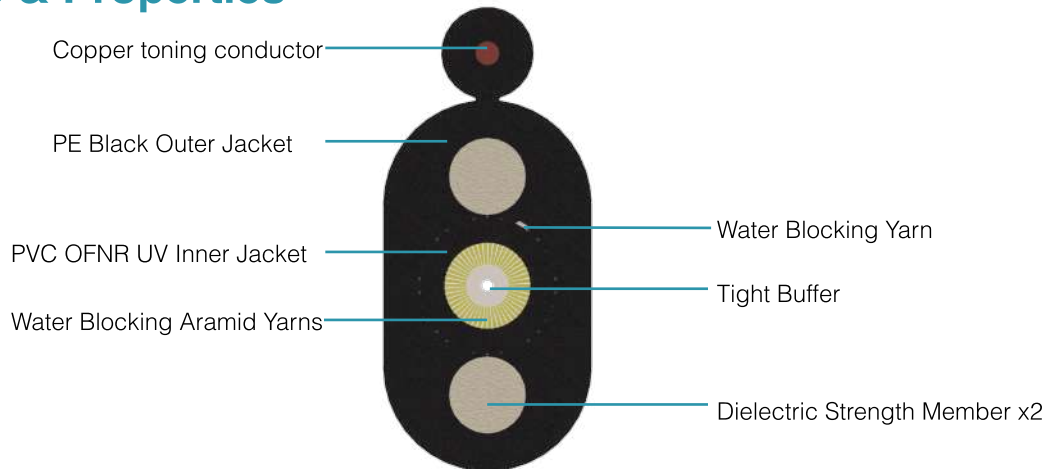
Folio EI-089-01-EN

Last Review 2/6/2024

Dimensions & Properties

Copper toning conductor

PE Black Outer Jacket

Water Blocking Yarn

PVC OFNR UV Inner Jacket

Tight Buffer

Water Blocking Aramid Yarns

Dielectric Strength Member x2

Design	
Fiber Count	1
Tight Buffer Color	6
Inner Jacket Color	6 OR 8
Tigth Buffer Diameter	0.9 mm (0.4 in)
Dielectric Strength Member	EAA coated FRP
Toning Conductor	24 AWG copper wire
Outer Jacket Material	Polyethylene
Tight buffer / Inner Jacket Material	PVC Riser / PVC Riser UV
Drum Length	2,000 ft (±5%)
Temperature Range	
Operation	-40°C to 70°C (-40° F to 158° F)
Installation	-30°C to 70°C (-22° F to 158° F)
Storage / Transport	-40°C to 70°C (-40° F to 158° F)
Mechanical Properties	
Crush Resistance (Short-term / Long-Term)	2,200/100 mm / 1,100 N/100 mm
Minimum Bend Radius (Operation / Installation)	10 x OD / 20 x OD

Note: Waveoptics® recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Dimensions & Properties

Sub-unit Diameter (mm) (in) (±5%)	Cable Weight (kg/km) (lb/kft) (±10%)	Tensile Strength (N) (lbf) Long-Term/Short-Term	Nominal Outer Dimensions (mm) (in) (±5%)	Dielectric Strength Member Diameter (mm) (in)
2.95 (0.12)	47.4 (32)	400 / 1,350 (90/303)	10.0 (±0.65) x 4.5 (±0.5) (0.39 x 0.18)	1.65 (0.065)

Printed Information on Outer Jacket

=/MONTH//YEAR/ WAVEOPTICS OPTICAl CABLE ==FLAT DROP INDOOR/OUTDOOR==TONEABLE== == /FIBER TYPE/==/01/==/FEET*/ FT==/LOT#/=

- Printed in white and resistant to physical tests on marking
- Marking interval: every 2 feet + 1%
- The marking can be changed according to customer requirements

Printed Information on Inner Jacket

=/MONTH//YEAR/ WAVEOPTICS OPTICAl CABLE + = = OFNR = = 3.0 MM = = /FIBER TYPE/= =/01/= =/LOT#/=

- Printed in black, except for dark colored cables, which will be printed in white.
- Marking interval: every 2 feet + 1%
- The marking can be changed according to customer requirements.
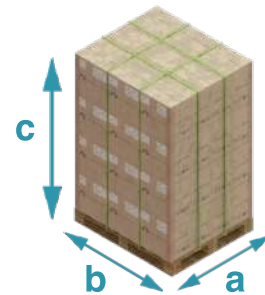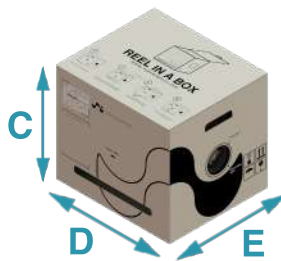
Reel and Packaging Information

Reel supported by caddies, allowing it to rotate inside the box. Making it a more practical packaging/installation solution.

Spin control knob allows to have better reel rotation control. Allowing it to rotate freely or controlled

Pulling-eye intregated on the end of the cable, allowing easy access to the cable.

Reel Length (ft) (m) (±5%)	Box Dimensions (mm) (in) (±5%)			Total Weight (kg) (lb) (±10%)	Pallet Capacity (ft) (m) (±5%)	Reel Qty. Per Pallet.	Pallet Dimensions (mm) (in) (±5%)		
	A	B	C				a	b	c
2,000 (610)	407 (16)	500 (19.7)	395 (16)	955 (2,105)	60,000 (18,288)	30	1,016 (40)	1,219 (48)	2,175 (86)

Note 1: Please contact your sales agent for higher fiber counts or different drum lengths available.
Note 2: All documentation included in each drum of cable is in english, if a different language is needed, please contact your sales agent.

All drums include:*

1. Drum handling instructions
2. Test report certificate
3. Product description (weight, dimensions, lot and part number)
4. End cable marking
5. Both ends include end caps to protect against humidity

Transmission Performance by Fiber Type

Fiber Type	Single-mode		
Waveoptics® Fiber Type	G657.A1	G657.A2	SM G657.B3
Waveoptics® Fiber Code	T	E	N
OFS® Fiber Type	-	-	-
OFS® Fiber Code	-	-	-
Wavelength (nm)	1310/1550		
Max.attn. (dB/km) (1)	0.4/0.3	0.4/0.3	0.4/0.3
Cable Marking Specifications	G657.A1	G657.A2	SM G657.B3

Notes:
(1) Maximum attenuation after cabling process

Part Number Configuration

FOSPC-030-X-TFRSX-FTXXX-US

Waveoptics® Fiber Type

T - SM G657.A1
E - SM G657.A2
N - SM G657.B3

Outer jacket material / Inner jacket color

C5C - MDPE / WHITE OFNR
C5D - MDPE / BLACK OFNR

Optical Cable Compliance

US - Waveoptics® Standard

Note: please contact your Waveoptics® distributor if you need any additional compliance or if you have questions about the part number configuration.